

Spool File For Oracle Students Trained by Mr.Sathish Yellanki

SQL> cl scr

```
SQL> SELECT LEVEL, MAX(Sal)
2  FROM EMP
3  CONNECT BY PRIOR Sal > Sal
4  GROUP BY LEVEL
5  ORDER BY LEVEL;
```

LEVEL	MAX(SAL)
1	5000
2	3000
3	2975
4	2850
5	2450
6	1600
7	1500
8	1300
9	1250
10	1100
11	950
12	800

12 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT LEVEL, MIN(Sal)
2  FROM EMP
3  CONNECT BY PRIOR Sal < Sal
4  GROUP BY LEVEL
5* ORDER BY LEVEL
SQL> /
```

LEVEL	MIN(SAL)
1	800
2	950
3	1100
4	1250
5	1300
6	1500
7	1600

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8	2450
9	2850
10	2975
11	3000
12	5000

12 rows selected.

SQL> cl scr

```
SQL> SELECT LEVEL, MAX(Sal)
  2 FROM EMP
  3 WHERE LEVEL = &LEVELNO
  4 CONNECT BY PRIOR Sal > Sal
  5 GROUP BY LEVEL;
```

Enter value for levelno: 1

LEVEL	MAX(SAL)
1	5000

SQL> /

Enter value for levelno: 2

LEVEL	MAX(SAL)
2	3000

SQL> /

Enter value for levelno: 3

LEVEL	MAX(SAL)
3	2975

SQL> /

Enter value for levelno: 6

LEVEL	MAX(SAL)
6	1600

```
SQL> SELECT LEVEL, MIN(Sal)
  2 FROM EMP
```

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```
3 WHERE LEVEL = &LEVELNO
4 CONNECT BY PRIOR Sal < Sal
5 GROUP BY LEVEL;
Enter value for levelno: 1
```

LEVEL	MIN(SAL)
1	800

```
SQL> /
Enter value for levelno: 2
```

LEVEL	MIN(SAL)
2	950

```
SQL> /
Enter value for levelno: 5
```

LEVEL	MIN(SAL)
5	1300

```
SQL> cl scr
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT LEVEL, MIN(Sal)
2 FROM EMP
3 WHERE LEVEL &givelexicalPar
4 CONNECT BY PRIOR Sal < Sal
5* GROUP BY LEVEL
SQL> /
Enter value for givelexicalpar: = 1
```

LEVEL	MIN(SAL)
1	800

```
SQL> /
Enter value for givelexicalpar: <= 5
```

LEVEL	MIN(SAL)
-------	----------

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1	800
2	950
4	1250
5	1300
3	1100

SQL> /

Enter value for givelexicalpar: IN(1, 4, 7)

LEVEL	MIN(SAL)
1	800
4	1250
7	1600

SQL> /

Enter value for givelexicalpar: BETWEEN 2 AND 8

LEVEL	MIN(SAL)
6	1500
2	950
4	1250
5	1300
8	2450
3	1100
7	1600

7 rows selected.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT LEVEL, MIN(Sal)
2  FROM EMP
3  WHERE LEVEL &GiveLexicalPar
4  CONNECT BY PRIOR Sal < Sal
5  GROUP BY LEVEL
6* ORDER BY LEVEL
```

SQL> /

Enter value for givelexicalpar: BETWEEN 4 AND 8

LEVEL	MIN(SAL)
-------	----------

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```
-----
      4      1250
      5      1300
      6      1500
      7      1600
      8      2450
```

SQL> cl scr

SQL> ED

Wrote file afiedt.buf

```
1  SELECT LEVEL, MAX(Sal)
2  FROM EMP
3  WHERE LEVEL &GiveLexicalPar
4  CONNECT BY PRIOR Sal > Sal
5  GROUP BY LEVEL
6* ORDER BY LEVEL
```

SQL> /

Enter value for givelexicalpar: = 1

```
-----
      LEVEL      MAX(SAL)
-----
          1          5000
```

SQL> /

Enter value for givelexicalpar: IN(1, 7, 4)

```
-----
      LEVEL      MAX(SAL)
-----
          1          5000
          4          2850
          7          1500
```

SQL> /

Enter value for givelexicalpar: BETWEEN 4 AND 8

```
-----
      LEVEL      MAX(SAL)
-----
          4          2850
          5          2450
          6          1600
          7          1500
          8          1300
```

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```
SQL> /
Enter value for givelexicalpar: <= 5
```

LEVEL	MAX(SAL)
1	5000
2	3000
3	2975
4	2850
5	2450

```
SQL> cl scr
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT LEVEL, &GiveFunc(Sal)
2 FROM EMP
3 WHERE LEVEL &GiveLexicalPar
4 CONNECT BY PRIOR Sal &GiveDirection Sal
5 GROUP BY LEVEL
6* ORDER BY LEVEL
```

```
SQL> /
Enter value for givefunc: MAX
Enter value for givelexicalpar: = 1
Enter value for givedirection: >
```

LEVEL	MAX(SAL)
1	5000

```
SQL> /
Enter value for givefunc: MIN
Enter value for givelexicalpar: = 1
Enter value for givedirection: <
```

LEVEL	MIN(SAL)
1	800

```
SQL> /
Enter value for givefunc: MAX
Enter value for givelexicalpar: <= 5
```

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Enter value for givedirection: >

LEVEL	MAX(SAL)
1	5000
2	3000
3	2975
4	2850
5	2450

SQL> /

Enter value for givefunc: MIN

Enter value for givelexicalpar: <= 5

Enter value for givedirection: <

LEVEL	MIN(SAL)
1	800
2	950
3	1100
4	1250
5	1300

SQL> /

Enter value for givefunc: MAX

Enter value for givelexicalpar: BETWEEN 1 AND 5

Enter value for givedirection: >

LEVEL	MAX(SAL)
1	5000
2	3000
3	2975
4	2850
5	2450

SQL> /

Enter value for givefunc: MAX

Enter value for givelexicalpar: BETWEEN 6 AND 10

Enter value for givedirection: >

LEVEL	MAX(SAL)
6	1600

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```
7      1500
8      1300
9      1250
10     1100
```

SQL> /

Enter value for givefunc: MAX

Enter value for givelexicalpar: BETWEEN 11 AND 16

Enter value for givedirection: >

```
LEVEL    MAX(SAL)
-----
11        950
12        800
```

SQL> cl scr

SQL> SELECT Ename, Sal, Deptno, Job

2 FROM Emp

3 WHERE Sal =

4 (

5 SELECT MAX(Sal)

6 FROM EMP

7 WHERE LEVEL = &LEVELNO

8 CONNECT BY PRIOR Sal > Sal

9 GROUP BY LEVEL

10);

Enter value for levelno: 1

```
ENAME          SAL      DEPTNO JOB
-----
KING            5000         10 PRESIDENT
```

SQL> /

Enter value for levelno: 2

```
ENAME          SAL      DEPTNO JOB
-----
FORD            3000         20 ANALYST
SCOTT           3000         20 ANALYST
```

SQL> /

Enter value for levelno: 3

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```
-----
ENAME          SAL          DEPTNO JOB
-----
JONES          2975          20  MANAGER
```

```
SQL> SELECT Ename, Sal, Deptno, Job
  2  FROM Emp
  3  WHERE Sal =
  4  (
  5  SELECT MIN(Sal)
  6  FROM EMP
  7  WHERE LEVEL = &LEVELNO
  8  CONNECT BY PRIOR Sal < Sal
  9  GROUP BY LEVEL
 10 );
Enter value for levelno: 1
```

```
-----
ENAME          SAL          DEPTNO JOB
-----
SMITH          800          20  CLERK
```

```
SQL> /
Enter value for levelno: 2
```

```
-----
ENAME          SAL          DEPTNO JOB
-----
JAMES          950          30  CLERK
```

```
SQL> /
Enter value for levelno: 4
```

```
-----
ENAME          SAL          DEPTNO JOB
-----
MARTIN        1250          30  SALESMAN
WARD          1250          30  SALESMAN
```

```
SQL> ED
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```

```
  1  SELECT Ename, Sal, Deptno, Job
  2  FROM Emp
  3  WHERE Sal =
  4  (
  5  SELECT &GiveFun(Sal)
  6  FROM EMP
```

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```
7 WHERE LEVEL &GiveParam
8 CONNECT BY PRIOR Sal &GiveDirec Sal
9 GROUP BY LEVEL
10* )
```

SQL> /

Enter value for givefun: MAX
Enter value for giveparam: = 1
Enter value for givedirec: >

ENAME	SAL	DEPTNO	JOB
KING	5000	10	PRESIDENT

SQL> /

Enter value for givefun: MIN
Enter value for giveparam: = 1
Enter value for givedirec: <

ENAME	SAL	DEPTNO	JOB
SMITH	800	20	CLERK

SQL> /

Enter value for givefun: MAX
Enter value for giveparam: <= 5
Enter value for givedirec: >

```
SELECT MAX(Sal)
*
```

ERROR at line 5:

ORA-01427: single-row subquery returns more than one row

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Ename, Sal, Deptno, Job
2 FROM Emp
3 WHERE Sal IN
4 (
5 SELECT &GiveFun(Sal)
6 FROM EMP
7 WHERE LEVEL &GiveParam
8 CONNECT BY PRIOR Sal &GiveDirec Sal
9 GROUP BY LEVEL
```

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```
10* )
SQL> /
Enter value for givefun: MAX
Enter value for giveparam: = 1
Enter value for givedirec: >
```

ENAME	SAL	DEPTNO	JOB
KING	5000	10	PRESIDENT

```
SQL> /
Enter value for givefun: MAX
Enter value for giveparam: <= 5
Enter value for givedirec: >
```

ENAME	SAL	DEPTNO	JOB
KING	5000	10	PRESIDENT
SCOTT	3000	20	ANALYST
FORD	3000	20	ANALYST
BLAKE	2850	30	MANAGER
CLARK	2450	10	MANAGER
JONES	2975	20	MANAGER

6 rows selected.

```
SQL> cl scr
```

```
SQL> SELECT Ename, &&GiveDimension, Deptno, Job
  2 FROM Emp
  3 WHERE &&GiveDimension IN
  4 (
  5 SELECT &GiveFunc(&&GiveDimension)
  6 FROM EMP
  7 WHERE LEVEL &GiveOperator
  8 CONNECT BY PRIOR &&GiveDimension &GiveDirec &&GiveDimension
  9 GROUP BY LEVEL
 10 );
```

```
Enter value for givedimension: Sal
Enter value for givefunc: MAX
Enter value for giveoperator: = 1
Enter value for givedirec: >
```

ENAME	SAL	DEPTNO	JOB
-------	-----	--------	-----

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```
-----  
KING                5000                10 PRESIDENT
```

```
SQL> DEFINE GiveDimension = HireDate  
SQL> /  
Enter value for givefunc: MAX  
Enter value for giveoperator: = 1  
Enter value for givedirec: >
```

```
-----  
ENAME      HIREDATE      DEPTNO JOB  
-----  
ADAMS      12-JAN-83      20 CLERK
```

```
SQL> /  
Enter value for givefunc: MIN  
Enter value for giveoperator: = 1  
Enter value for givedirec: <
```

```
-----  
ENAME      HIREDATE      DEPTNO JOB  
-----  
SMITH      17-DEC-80      20 CLERK
```

```
SQL> DEFINE GiveDimension = Sal  
SQL> /  
Enter value for givefunc: MAX  
Enter value for giveoperator: <= 5  
Enter value for givedirec: >
```

```
-----  
ENAME      SAL      DEPTNO JOB  
-----  
KING      5000      10 PRESIDENT  
SCOTT      3000      20 ANALYST  
FORD      3000      20 ANALYST  
BLAKE      2850      30 MANAGER  
CLARK      2450      10 MANAGER  
JONES      2975      20 MANAGER
```

6 rows selected.

```
SQL> cl scr
```

```
SQL> COLUMN "Path" FORMAT A30  
SQL> SELECT  
2 Ename Employee,
```

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```
3 CONNECT_BY_ROOT Ename "Manager",
4 LEVEL - 1 "Pathlen",
5 SYS_CONNECT_BY_PATH(Ename, '/') "Path"
6 FROM Emp
7 WHERE LEVEL > 1 AND Deptno = &Deptno
8 CONNECT BY PRIOR Empno = MGR;
Enter value for deptno: 20
```

EMPLOYEE	Manager	Pathlen Path
ADAMS	SCOTT	1 /SCOTT/ADAMS
SMITH	FORD	1 /FORD/SMITH
SCOTT	JONES	1 /JONES/SCOTT
ADAMS	JONES	2 /JONES/SCOTT/ADAMS
FORD	JONES	1 /JONES/FORD
SMITH	JONES	2 /JONES/FORD/SMITH
JONES	KING	1 /KING/JONES
SCOTT	KING	2 /KING/JONES/SCOTT
ADAMS	KING	3 /KING/JONES/SCOTT/ADAMS
FORD	KING	2 /KING/JONES/FORD
SMITH	KING	3 /KING/JONES/FORD/SMITH

11 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT
2 Ename Employee
3 FROM Emp
4 WHERE LEVEL > 1 AND Deptno = &Deptno
5* CONNECT BY PRIOR Empno = MGR
```

```
SQL> /
Enter value for deptno: 20
```

EMPLOYEE

ADAMS
SMITH
SCOTT
ADAMS
FORD
SMITH
JONES

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SCOTT
ADAMS
FORD
SMITH

11 rows selected.

SQL> cl scr

SQL> SELECT
2 Name,
3 SUM(Sal) "Total Salary"
4 FROM
5 (
6 SELECT
7 CONNECT_BY_ROOT Ename AS Name,
8 Sal
9 FROM Emp
10 WHERE Deptno = &GiveDeptno
11 CONNECT BY PRIOR Empno = MGR
12)
13 GROUP BY Name;
Enter value for givedeptno: 20

NAME	Total Salary
JONES	10875
FORD	3800
SMITH	800
SCOTT	4100
ADAMS	1100
KING	10875

6 rows selected.

SQL> SELECT Ename, Sal
2 FROM Emp
3 WHERE Deptno = 20;

ENAME	SAL
JONES	2975
FORD	3000
SMITH	800

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SCOTT 3000
ADAMS 1100

SQL> SELECT SUM(Sal) FROM Emp;

 SUM(SAL)

 29025

SQL> SELECT SUM(Sal) - 5000 FROM Emp;

 SUM(SAL)-5000

 24025

SQL> SELECT Deptno, SUM(Sal)
 2 FROM Emp
 3 GROUP BY Deptno;

DEPTNO	SUM(SAL)
30	9400
20	10875
10	8750

SQL> SELECT 10875 - 2975 FROM DUAL;

 10875-2975

 7900

SQL> SPPOOL OFF

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